

What is claimed is:

- Sub
A1*
1. A system for processing a multimedia data file to provide information supporting user navigation of multimedia data file content, comprising:
- 5 a content parser to identify text and image content of a data file;
- an image processor for processing said identified image content to identify embedded text content;
- 10 a text sorter for parsing said identified text and said identified embedded text to locate text items in accordance with predetermined sorting rules; and
- memory for storing a navigation file containing said text items.
- 15 2. The system of claim 1, wherein the navigation file links to at least one internal document object.
3. The system of claim 1, wherein the navigation file links to at least one external document object.

4. The system of claim 1, wherein the image processor comprises a black and white image processor comprising:

a pixel smearing component reducing text to a rectangular block of pixels; and

5 an image filtering component for cleaning a smeared image.

6 5. The system of claim 1, wherein the content parser applies text extraction rules to identify text and identify
7 a document structure, wherein the document structure
8 defines a context for identified text.

9 6. The system of claim 1, wherein the content parser
10 applies pre-defined hierarchical rules for determining a
11 level of identified text.

12 7. The system of claim 1, wherein the image processor
13 applies object templates to identify embedded text.

14 8. The system of claim 1, wherein the system refines a
15 search resolution during a text identifying process to
16 determine a location of the embedded text within an image.

9. The system of claim 1, wherein identified text comprises hyperlinks.

5 10. A graphical User interface system supporting processing of a multimedia data file to provide information supporting user navigation of multimedia data file content, comprising:

a menu generator for generating,

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m of claim 10, where
ses links to at least
of creating an anchor
document format document
g a text segment from
t;
ng a context of the
ected from a context
the text segment as
to the context.

d of claim 13, where
t includes one or more
one or more non-text
es textual segments

5

```

extracting a text segment from the portable document
format document;

```

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defining the text segment as an anchorable information unit according to the context.

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14. The method of claim 13, wherein the portable document format document includes one or more textual objects including and one or more non-textual objects, wherein the objects includes textual segments.

1. The first part of the report is a general introduction to the project, which includes a brief history of the organization and a statement of the project's purpose.

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18. The method of claim 17, wherein the context sensitive hierarchical structure, including the anchorable information unit is searchable.

5 19. The method of claim 13, wherein the context includes a location for the extracted text segment.

10 20. The method of claim 13, wherein the step of determining a context further comprises the step of determining a location and a style of the text segment.

21. The method of claim 13, further comprising the step of storing an extracted text segment in a Standard Generalized Markup Language syntax using a predefined grammar.

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22. The method of claim 13, wherein the anchorable information unit is automatically hyperlinked.

23. A program storage device readable by machine, tangibly embodying a program of instructions executable by the machine to perform method steps for creating an anchorable information unit file from a portable document format

5 document, the method steps comprising:

parsing the portable document format document into textual portions and non-text portions;

extracting structure from the textual portions and the non-text portions;

10 determining text within textual portions, and text the non-text portions; and

hyperlinking a plurality of keywords within the textual portions and non-text portions to a related document.

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24. The program storage device of claim 23, wherein the step of parsing further comprises the step of differentiating color image content from black-and-white content.

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25. The program storage device of claim 23, wherein the step of extracting further comprises the steps of:

determining a level for extracted textual portions;

associating the context with the text; and

5 pattern matching extracted text to the portable document format document to determine a context and a location.

26. The program storage device of claim 25, wherein the level is one of a paragraph, a heading and a subheading.

27. The program storage device of claim 25, wherein the step of pattern matching further comprises the steps of:

determining a median font size for the portable

15 document format document;

comparing a font size of the extracted text to the median font size for the portable document format document; and

determining a context according to font size.

